

SABIC Innovative Plastics LNP THERMOCOMP Lexan_LGK3020 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Thermocomp* Lexan_LGK3020 compound is a glass reinforced. Flame retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-LexanLGK3020-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792
Water Absorption	0.13 %	0.13 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.00050 - 0.0025 cm/cm	0.00050 - 0.0025 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0015 - 0.0035 cm/cm	0.0015 - 0.0035 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	117 MPa	17000 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	Type I, 50 mm/min; ASTM D638
Flexural Strength	147 MPa	21300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.57 GPa	953 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.22 J/cm	2.29 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.0 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	15.0 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
	@Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	46.8 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	26.0 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
	@Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	146 $\text{Å}^\circ\text{C}$	295 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	17.7 kV/mm	450 kV/in	in oil; ASTM D149
	@Thickness 3.20 mm	@Thickness 0.126 in	

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